

**SYSTEMS AND METHODS FOR A SAFETY CIRCUIT FOR AN
ELECTRIC MOTOR**

ABSTRACT OF THE DISCLOSURE

A safety circuit for an electric motor. The electric motor includes at least one power input, at least one motor winding and an input ground. The safety circuit includes a relay coupled to the power input and the input ground, and a transistor switch coupled to the relay, the power input and the motor winding. If the relay becomes decoupled from input ground, then the transistor switch will be closed, thus preventing power from the power input from reaching the motor winding.

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